

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 01021030
PUBLICATION DATE : 24-01-89

APPLICATION DATE : 16-07-87
APPLICATION NUMBER : 62175862

APPLICANT : NIPPON MINING CO LTD;

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INT.CL. : C22C 14/00

TITLE : TITANIUM-BASE ALLOY MATERIAL EXCELLENT IN CORROSION RESISTANCE

ABSTRACT : PURPOSE: To develop a Ti-base alloy member having superior corrosion resistance to crevice corrosion, by regulating the surface roughness of a member of a Ti-base alloy containing specific amounts of one or more elements among Rh, Os, Ir, and Pt and one or more elements among Ni, Co, Mo, W, and V to a specific value or below.

CONSTITUTION: The surface of the member of a Ti-base alloy having a composition in which 0.005~2.0% by weight, in total, of one or more elements among Rh, Os, Ir, and Pt and 0.05~5.0%, in total, of one more elements among Ni, Co, Mo, W, and V are added and incorporated into Ti or further 0.005~2.0% Ru and/or Pd is incorporated is worked so that its roughness Ra is regulated to $\leq 70\mu\text{m}$. By this method, the Ti-base alloy member excellent in corrosion resistance to crevice corrosion in a solution containing Cl ions, such as ions of HCl and NaCl, can be obtained.

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